

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-349141

(43)Date of publication of application : **03.12.1992**

(51)Int.CI. C03C 4/10

C03C 3/32

C03C 4/12

(21)Application number : **03-121334** (71)Applicant : **MITSUI PETROCHEM IND LTD**

(22)Date of filing : **27.05.1991** (72)Inventor : **NAGAYAMA HIROYUKI**

(54) WAVELENGTH CHANGING GLASS MATERIAL

(57)Abstract:

PURPOSE: To control the emission intensities of green light and red light without varying the compsn. of the host material of a wavelength changing glass material.

CONSTITUTION: Er ions and Tm ions are added to an IR transmitting glass material. The amts. of these rare earth metal ions added are regulated to $\leq 10\text{mol\%}$ each basing on the amt. of cations in the host glass material. A green to red upconversion fluorescent lamp can be obtd. by varying the ratio between Er ions and Tm ions added.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]

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